

Substitute for form 1449A-B/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known	
	Application Number	09/618,579
	Filing Date	July 18, 2000
	First Named Inventor	Sergey A. Selifon v
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
Attorney Docket Number		02-028950US

class/subclass


Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
ST	AA	5,512,463	435/91.2	Stemmer	04-30-1996	
ST	AB	5,514,588	435/262	Varadaraj	05-07-1996	
ST	AC	5,605,793	435/6	Stemmer	02-25-1997	
ST	AD	5,763,239	435/6	Short et al.	06-09-1998	
ST	AE	5,789,228	435/229	Lam et al.	08-04-1998	
ST	AF	5,811,238	435/6	Stemmer et al.	09-22-1998	
ST	AG	5,814,473	435/15	Warren et al.	09-29-1998	
ST	AH	5,824,469	435/6	Horwitz et al.	10-20-1998	
ST	AI	5,830,696	435/69.1	Short	11-03-1998	
ST	AJ	5,830,721	435/489	Stemmer et al.	11-03-1998	
ST	AK	5,834,252	435/91.1	Stemmer et al.	11-10-1998	
ST	AL	5,837,458	435/6	Minushull et al.	11-17-1998	
ST	AM	5,866,363	435/69.1	Pieczenik	02-02-1999	
ST	AN	5,876,997	435/196	Kretz	03-02-1999	
ST	AO	5,925,749	536/23.1	Mathur, et al.	07-20-1999	
ST	AP	5,928,905	435/91.1	Stemmer, et al.	07-27-1999	
ST	AQ	5,939,250	435/4	Short, Jay M.	08-17-1999	
ST	AR	5,939,300	435/192	Robertson, et al.	08-17-1999	
ST	AS	5,942,430	435/197	Robertson, et al.	08-24-1999	
ST	AT	5,948,666	435/194	Callen, et al.	09-07-1999	
ST	AU	5,958,672	435/14	Short, Jay M.	09-28-1999	
ST	AV	5,958,751	435/208	Murphy, et al.	09-28-1999	
ST	AW	5,962,258	435/69.1	Mathur, et al.	10-05-1999	
ST	AX	5,962,283	435/128	Warren et al.	10-05-1999	
ST	AY	5,965,408	435/2323	Short, Jay M.	10-12-1999	
ST	AZ	5,985,646	435/2523	Murphy, et al.	11-16-1999	
ST	BA	6,001,574	435/6	Short et al.	12-14-1999	
Examiner Signature <i>[Signature]</i>				Date Considered	4/13/01	

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	Group Art Unit		Unassign d	
	Examiner Name		Unassigned	
	Attorney Docket Number		02-028950US	

BB	6,004,788	435/183	Short	12-21-1999	
BC	6,030,779	435/6	Short	02-29-2000	
BD	6,054,267	435/6	Short	04-25-2000	

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Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
BE	WO	97/07205			Novo Nordisk A/S	02-27-1997		
BF	WO	97/20078			Affymax Technologies	06-05-1997		
BG	WO	97/25410			Novo Nordisk A/S	07-17-1997		
BH	WO	97/35957			Maxygen, Inc.	10-02-1997		
BI	WO	97/35966			Maxygen, Inc.	10-02-1997		
BJ	WO	97/44361			Recombinant Biocatalysis Inc.	11-27-1997		
BK	WO	97/48416			Recombinant Biocatalysis, Inc.	12-24-1997		
BL	WO	97/48717			Recombinant Biocatalysis Inc	12-24-1997		
BM	WO	97/48794			Recombinant Biocatalysis Inc	12-24-1997		
BN	WO	98/00526			Recombinant Biocatalysis Inc	01-08-1998		
BO	WO	98/01581			Recombinant Biocatalysis Inc	01-15-1998		
BP	WO	98/13485			Maxygen, Inc.	04-02-1998		
BQ	WO	98/13487			Maxygen, Inc.	04-02-1998		
BR	WO	98/24799			Diversa Corp.	06-11-1998		
BS	WO	98/27230			Maxygen, Inc.	06-25-1998		
BT	WO	98/28416			Novo Nordisk A/S	07-02-1998		
BU	WO	98/31837			Maxygen, Inc.	07-23-1998		
BV	WO	98/36080			Maxygen, Inc.	08-20-1998		

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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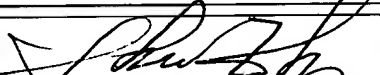
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<del>A</del>	CR	WO	99/45154		Diversa Corp.	09-10-1999		
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<del>A</del>	CU	WO	00/37684		KRIS & FELDER	06-29-2000		

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	Examiner Name	Unassigned
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
sf	CV	DAHIYAT et al., "Automated design of the surface positions of protein helices" <i>Protein Science</i> (1997) 6:1333-1337	
R	C W	DAHIYAT and MAYO "De Novo Protein Design: Fully Automated Sequence Selection" <i>Science</i> (1997) vol. 278 pp. 82-87	
Q	CX	DAHIYAT et al., "De Novo Protein Design: Towards Fully Automated Sequence Selection" <i>J. Mol. Biol.</i> (1997) 273:789-796	
R	CY	DAHIYAT and MAYO "Probing the role of packing specificity in protein design" <i>Proc. Natl. Acad. Sci. U.S.A.</i> vol. 94 pp. 10172-10177	
R	CZ	GORDON and MAYO "Branch-and-Terminate: a combinatorial optimization algorithm for protein design" <i>Structure</i> (1999) 7:1089-1098	
R	DA	GORDON et al., "Energy functions for protein design" <i>Current Opinion in Structural Biology</i> (1999) 9:509-513	
R	DB	GORDON and MAYO "Radical Performance Enhancements for Combinatorial Optimization Algorithms Based on the Dead-End Elimination Theorem" <i>Journal of Computational Chemistry</i> , 1998, vol. 19, no. 13, 1505-1514	
R	DC	HANEY et al., "Structural Basis for Thermostability and Identification of Potential Active Site Residues for Adenylate Kinases From the Archaeal Genus <i>Methanococcus</i> " <i>Proteins</i> (1997) 28:117-130	
R	DD	HARAYAMA, SHIGEAKI, (1998) "Artificial evolution by DNA shuffling" <i>Tibtech</i> vol. 16 pp 76-82	
R	DE	MALAKAUSKAS and MAYO "Design, structure and stability of a hyperthermophilic protein variant" <i>Nature Structural Biology</i> (1998) vol. 5, no. 6, 470-475	
R	DF	POLLOCK et al., "Coevolving Protein Residues: Maximum Likelihood Identification and Relationship to Structure" <i>J. Mol. Biol.</i> (1999) 287:187-198	
R	DG	STEMMER (1994) DNA shuffling by random fragmentation and reassembly: In vitro recombination for molecular evolution" <i>Proc. Natl. Acad. Sci. USA</i> vol. 91, pp 10747-10751	
R	DH	STEMMER et al., "Single-step assembly of a gene and entire plasmid from large numbers of oligodeoxyribonucleotides" <i>Gene</i> (1995) 164:49-53	
R	DI	STREET and MAYO "Computational protein design" <i>Structure</i> (1999) 7:R105-R109	
R	DJ	STREET and MAYO "Intrinsic B-sheet propensities result from van der Waals interactions between side chains and local backbone" <i>Proc. Natl. Acad. Sci. U.S.A.</i> (1999) vol. 96 pp. 9074-9076	

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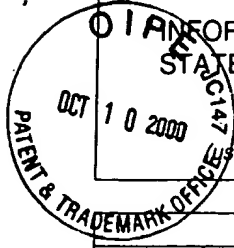
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	First Named Inventor	Serg y A. S lif nov
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-028950US

Q	DK	STREET and MAYO "Pairwise calculation of protein solvent-accessible surface areas" <i>Folding &amp; Design</i> (1998) 3:253-258	
Q	DL	STROP and MAYO "Rubredoxin Variant Folds without Iron" <i>J. American Chem. Soc.</i> (1999) vol. 121 no. 11 pp. 2341-2345	
Q	DM	SINGH et al., (1996) "Application of Genetic Algorithms to Combinatorial Synthesis: A Computational Approach to Lead Identification and Lead Optimization" <i>J. Chem. Inf. Comput. Sci</i> vol. 118 pp 1669-1676	
Q	DN	VENKATASUBRAMANIAN et al., (1995) "Evolutionary Design of Molecules with Desired Properties Using the Genetic Algorithm" <i>J. Chem. Inf. Comput. Sci.</i> vol. 35 pp. 188-195	
Q	DO	WOLLENBERG and ATCHLEY "Separation of phylogenetic and functional associations in biological sequences by using the parametric bootstrap" <i>PNSA</i> vol. 97, no. 7, pp. 3288-3291	
Q	DP	ZHANG, CHING (1994) "A Genetic Algorithm for Molecular Sequence Comparison" <i>Proceedings of the International Conference on Systems, Man, and Cybernetics</i> pp 1926-1931	

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		Attorney Docket Number	02-028920US



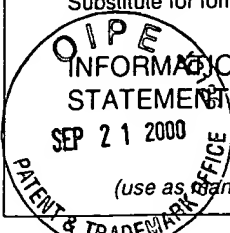
U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
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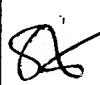

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
SA	AA	Crameri & Stemmer "1020-Fold aptamer library amplification without gel purification" <u>Nucleic Acid Research</u> (1993) Vol. 21 No. 18 p. 4110	
SA	AB	Feng & Doolittle, <i>J. Mol. Evol.</i> 35:351-360 (1987)	
SA	AC	Higgins & Sharp, <i>CABIOS</i> 5:151-153 (1989).	
SA	AD	Sun (1999) "Modeling DNA Shuffling" <u>Journal of Computational Biology</u> 6(1):77-90	

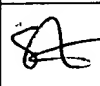

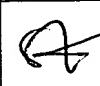
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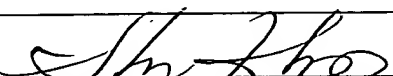
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		Office	Number	Kind Code (if known)				
	AA	WO	95/15972		Thomas Jefferson University	06-15-1995		
	AB	WO	98/49350		Regents of the University of Minnesota	11-05-1998		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	AC	Giver and Arnold "Combinatorial protein design by in vitro recombination" <u>Current Opinion in Chemical Biology</u> (1998) 2:335-338	
	AD	Sun, Fengzhu, "Modeling DNA Shuffling" <u>Proceedings of the Second Annual International Conference on Computational Molecular Biology</u> (1998) 251-257	
	AE	Zhao et al., "Molecular evolution by staggered extension process (StEP) in vitro recombination" <u>Nature Biotechnology</u> Vol. 16 (1998) pp. 258-261	

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86	AA	5,603,793	15b/247	Yoshida et al.	02-18-1997	

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82	AB	WO	95/22625		Affymax Technologies, N.V.	08-24-1995		
82	AC	WO	96/33207		Glaxo Group Limited	10-24-1996		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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82	AD	Altschul et al., <i>J. Mol. Biol.</i> 215:403-410 (1990)	
82	AE	Boehnke et al. (1991) "Statistical methods for multipoint radiation hybrid mapping" <i>Am. J. Hum. Genet.</i> 49:1174-1188	
82	AF	Brunner and Bujard (1987) <i>EMBO J.</i> 6:3139-3144	
82	AG	Chang et al. (1999) "Evolution of a cytokine using DNA family shuffling" <i>Nature Biotechnology</i> 17:793-797	
82	AH	Christians et al. (1999) "Directed evolution of thymidine kinase for AZT phosphorylation using DNA family shuffling" <i>Nature Biotechnology</i> 17:259-264	
82	AI	Crameri and Stemmer (1995) "Combinatorial multiple cassette mutagenesis creates all the permutations of mutant and wildtype cassettes" <i>BioTechniques</i> 18:194-195	
82	AJ	Crameri et al. (1996) "Construction and evolution of antibody-phage libraries by DNA shuffling" <i>Nature Medicine</i> 2:100-103	
82	AK	Crameri et al. (1996) "Improved green fluorescent protein by molecular evolution using DNA shuffling" <i>Nature Biotechnology</i> 14:315-319	
82	AL	Crameri et al. (1997) "Molecular evolution of an arsenate detoxification pathway by DNA shuffling," <i>Nature Biotechnology</i> 15:436-438;	
82	AM	Crameri et al. (1998) "DNA shuffling of a family of genes from diverse species accelerates directed evolution" <i>Nature</i> 391:288-291	
82	AN	Gates et al. (1996) "Affinity selective isolation of ligands from peptide libraries through display on a lac repressor 'headpiece dimer'" <i>Journal of Molecular Biology</i> 255:373-386	


Examiner Signature	<i>Shah Shah</i>	Date Considered	4/13/01
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	First Named Inventor	Serg y A. S lif n v	
	Group Art Unit	Unassign d	
	Examiner Name	Unassigned	
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AO	Irvine et al. (1991) "SELEXION: systematic evolution of ligands by exponential enrichment with integrated optimization by non-linear analysis" <u>J. Mol. Biol.</u> 222:739-761	
AP	Jonsson et al. (1993) <u>Nucleic Acids Res.</u> 21:733-739	
AQ	Kelly et al. (1994) "A test of the Markovian model of DNA evolution" <u>Biometrics</u> 50(3):653-64	
AR	Knaus and Bujard (1988) <u>EMBO J.</u> 7:2919-2923	
AS	Lander and Waterman (1988) Genomic mapping by fingerprinting random clones: a mathematical analysis" <u>Genomics</u> 2:231-239	
AT	Lanzer and Bujard (1988) <u>Proc. Natl. Acad. Sci.</u> 85:8973-8977	
AU	Minshull and Stemmer (1999) "Protein evolution by molecular breeding" <u>Current Opinion in Chemical Biology</u> 3:284-290	
AV	Ness et al. (1999) "DNA Shuffling of subgenomic sequences of subtilisin" <u>Nature Biotechnology</u> 17:893-896	
AW	Patten et al. (1997) "Applications of DNA Shuffling to Pharmaceuticals and Vaccines" <u>Current Opinion in Biotechnology</u> 8:724-733	
AX	Stemmer (1994) "Rapid evolution of a protein in vitro by DNA shuffling" <u>Nature</u> 370:389-391	
AY	Stemmer (1995) "Searching Sequence Space" <u>Bio/Technology</u> 13:549-553	
AZ	Stemmer (1995) "The Evolution of Molecular Computation" <u>Science</u> 270: 1510	
BA	Stemmer (1996) "Sexual PCR and Assembly PCR" In: <u>The Encyclopedia of Molecular Biology</u> . VCH Publishers, New York. pp.447-457	
BB	Stemmer, et al., (1999) "Molecular breeding of viruses for targeting and other clinical properties. Tumor Targeting" 4:1-4	
BC	Sun and Waterman (1996) "A mathematical analysis of <i>in vitro</i> molecular selection-amplification" <u>J. Mol. Biol.</u> 258:650-660	
BD	Zhang et al. (1997) "Directed evolution of an effective fucosidase from a galactosidase by DNA shuffling and screening" <u>Proceedings of the National Academy of Sciences, U.S.A.</u> 94:4504-4509	

Examiner Signature		Date Considered	4/13/01
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.